Regulatory Framework for Reprocessing and Definitions (Gaps 1 and 6)

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Protecting People and the Environment

Gap Summary (SECY-09-0082)



Gap 1: Regulatory Framework

- Reprocessing facility would currently be licensed under 10 CFR Part 50 as a Production Facility
- Part 50 is mostly applicable to nuclear power reactors
- Would require many exemptions
- Current regulations do not provide framework for licensing reprocessing facilities

Gap 6: Definition for Reprocessing-Related Terms

 There are currently no definitions of reprocessing-related terms such as "reprocessing" and "recycling"

NRC Proposed Position: Gap 1



- Develop new part in Code of Federal Regulations (CFR) (10 CFR 7x)
- Identify and incorporate applicable current regulations into 10 CFR 7x
- Tailor for reprocessing and recycling



NRC Proposed Position: Gap 6



- Incorporate existing definitions where applicable
- Develop new definitions and clarify existing definitions where needed, for example
 - Reprocessing
 - Recycling



Previous Stakeholder Input: Gap 1



- Previous public meetings: stakeholders showed general support for new part in CFR
- NEI White Paper (ADAMS no. ML083590114): Similar approach; new "Part 7x" based upon existing Part 70
- No external support for NRC alternative approaches of modifying Part 50 or Part 70



Previous Stakeholder Input: Gap 6



- Previous public meetings: Industry supports defining "Waste Incidental to Recycling"; use of "recycling" in place of "reprocessing"
- NEI supports and provides revised definition of HLW
- No other stakeholder comment



Questions for Stakeholders: Gap 1 (Full list on summary statement)



- Are there emergency planning aspects that are unique to reprocessing and recycling facilities?
- Which standards and current requirements should be incorporated into Fire Protection regulations?
- Should NRC require that reprocessing facilities be designed to Seismic Category I standards?
- What requirements within 10 CFR Part 50, Appendix F should be adapted for inclusion in a new reprocessing regulation?

Questions for Stakeholders: Gap 6



 Does the public believe that there are important differences between the terms "reprocessing" and "recycling"? If so, how should those differences be expressed in a new regulation for a reprocessing facility?





ADDITIONAL SLIDES

List of Regulatory Issues Identified as Part of Gap 1



- Licensing considerations
- Criticality requirements
- Decommissioning
- Emergency planning
- Seismic safety
- Fire protection
- Reporting requirements
- Transfer of special nuclear material
- Reviews and hearing requirements